

Index of Published Material—1963

MINING WORLD

Volume 25, Numbers 1 through 4 and 6 through 13

AUTHORS INDEX

Month Page

Argall, George O., Jr.
Mining Rate on High Plateau in 1962 see growth in 1963 Jan 22
How San Manuel Used First Level Experience to Improve Second Level Mining .. July 18-21, 47*

Leaching Dumps to Recover More Southwest Copper at Lower Cost. Part I of II Oct 22-25, 27**
How Leaching Recovers Copper from Waste and Leach Dumps in Southwest. Part II of II Nov 20-24**
Story of Dave McGee Mining Copper Flux in Arizona .. May 20, 21, 50*

White Pine Raises Ore Grade and Cuts Mining Costs .. Aug 22-25**

Month Page

Cost. Part I of II .. Oct 22-25, 27**
How Leaching Recovers Copper from Waste and Leach Dumps in Southwest. Part II of II Nov 20-24**
Story of Dave McGee Mining Copper Flux in Arizona .. May 20, 21, 50*

White Pine Raises Ore Grade and Cuts Mining Costs .. Aug 22-25**

Month Page

Exploration .. Sept 36, 37, 45**
Hard Work and Persistence Pay Off for Idaho's Mountain Goat Leasers .. Nov 16-19, 27**

GOLD

How Knob Hill's Improved Mining Methods Minimize Cost Acceleration .. Mar 20-21*
Tayoltita: Mexico's Most Important Silver-Gold Operation. Part I of II .. June 20-24**
Tayoltita Cyanide Mill Has High Recovery Rate. Part II of II July 22-25**
Revival for Bannack Gold District? .. Oct 28-29*

TITLE INDEX

Americans Attend and Present Papers at International Minerals Congress .. July 30-31*
Anaconda Modernizes and Expands Compressed Air Plants at its Butte, Montana Operations

Dec 16*

ANFO Blasting Practice at Butte Mines .. Oct 30-33*

Australia's New Zinc-Lead Smelter Uses Imperial Process

Jan 16*

Colorado Mining Association: Miners Hear Management Problems .. Mar 24-25*

Did the Vein Really Pinch? A Case History of Geochemical Exploration .. Sept 36, 37, 45**

From Pyrrhotite to Pig Iron at Cominco .. Apr 10-12**

Greater Profit Is the Reason that It Pays to Mine in Canada Today .. Apr 14-16*

Hard Work and Persistence Pay Off for Idaho's Mountain Goat Leasers .. Nov 16-19, 27**

How Winter Doesn't Slow Atlantic City Iron Mine .. June 26-29*

How ASARCO Adapts Mining Methods to Taxco's Complex Geological Structures May 22-26**

How Kaiser Stacks, Blends and Reclaims Eagle Mt. Iron Ore

Feb 22*

How Knob Hill's Improved Mining Methods Minimize Cost Acceleration .. Mar 20*

How Leaching Recovers Copper from Waste and Leach Dumps in Southwest. Part II of II Nov 20-24**

How Mobile Service Trick Saves Time and Money at Boron Pit

May 27*

How San Manuel Used First Level Experience to Improve Second Level Mining .. July 18-21, 47*

How to Make Your Own Pulp Density Measuring Gauge (Money Making Methods) .. Aug 39

Improved Methods at Sunshine Mine Sends Higher Grade Silver Ore to Mill .. Feb 14*

How Asarco Adapts Mining Methods to Taxco's Complex Geological Structures May 22-26**

Tayoltita: Mexico's Most Important Silver-Gold Mining Operation. Part I of II .. June 20-24**

Tayoltita Cyanide Mill Has High Recovery Rate. Part II of II July 22-25**

Naica Battles Water and Costs as Lead-Zinc-Silver Mining Goes Deeper. Part I of II .. Aug 26-29, 38**

Naica Concentrator Floats Lead-Silver & Zinc; Recovery High. Part II of II .. Sept 32-34**

Did the Vein Really Pinch? A Case History of Geochemical Exploration .. Sept 36, 37, 45**

Hard Work and Persistence Pay Off for Idaho's Mountain Goat Leasers .. Nov 16-19, 27**

IRON

From Pyrrhotite to Pig Iron at Cominco .. Apr 10-12**

How Kaiser Stacks, Blends, and Reclaims Eagle Mt. Iron Ore

Feb 22, 23*

Why Winter Doesn't Slow Atlantic City Iron Mine .. June 26-29*

How ASARCO Adapts Mining Methods to Taxco's Complex Geological Structures May 22-26**

How Kaiser Stacks, Blends and Reclaims Eagle Mt. Iron Ore

Feb 22*

How Knob Hill's Improved Mining Methods Minimize Cost Acceleration .. Mar 20*

How Leaching Recovers Copper from Waste and Leach Dumps in Southwest. Part II of II Nov 20-24**

How Mobile Service Trick Saves Time and Money at Boron Pit

May 27*

How San Manuel Used First Level Experience to Improve Second Level Mining .. July 18-21, 47*

How to Make Your Own Pulp Density Measuring Gauge (Money Making Methods) .. Aug 39

Improved Methods at Sunshine Mine Sends Higher Grade Silver Ore to Mill .. Feb 14*

How Asarco Adapts Mining Methods to Taxco's Complex Geological Structures May 22-26**

Tayoltita: Mexico's Most Important Silver-Gold Mining Operation. Part I of II .. June 20-24**

Tayoltita Cyanide Mill Has High Recovery Rate. Part II of II July 22-25**

Naica Battles Water and Costs as Lead-Zinc-Silver Mining Goes Deeper. Part I of II .. Aug 26-29, 38**

Naica Concentrator Floats Lead-Silver & Zinc; Recovery High. Part II of II .. Sept 32-34**

Did the Vein Really Pinch? A Case History of Geochemical Exploration .. Sept 36, 37, 45**

Hard Work and Persistence Pay Off for Idaho's Mountain Goat Leasers .. Nov 16-19, 27**

SILVER

Improved Methods at Sunshine Mine Sends Higher Grade Silver Ore to Mill .. Feb 14*

How Asarco Adapts Mining Methods to Taxco's Complex Geological Structures May 22-26**

Tayoltita: Mexico's Most Important Silver-Gold Mining Operation. Part I of II .. June 20-24**

Tayoltita Cyanide Mill Has High Recovery Rate. Part II of II July 22-25**

Naica Battles Water and Costs as Lead-Zinc-Silver Mining Goes Deeper. Part I of II .. Aug 26-29, 38**

Naica Concentrator Floats Lead-Silver & Zinc; Recovery High. Part II of II .. Sept 32-34**

Did the Vein Really Pinch? A Case History of Geochemical Exploration .. Sept 36, 37, 45**

Hard Work and Persistence Pay Off for Idaho's Mountain Goat Leasers .. Nov 16-19, 27**

TRONA

Production Begins at Stauffer's Big Island Trona Mine .. Jan 12**

ZINC

Australia's New Zinc-Lead Smelter Uses Imperial Process

Mar 12*

How Asarco Adapts Mining Methods to Taxco's Complex Geological Structures May 22-26**

Naica Battles Water and Costs as Lead-Zinc-Silver Mining Goes Deeper. Part I of II .. Aug 26-29, 38**

Naica Concentrator Floats Lead-Silver & Zinc; Recovery High. Part II of II .. Sept 32-34**

Did the Vein Really Pinch? A Case History of Geochemical Exploration .. Sept 36, 37, 45**

Hard Work and Persistence Pay Off for Bannack Gold District? .. Oct 28-29*

Naica Concentrator Floats Lead-Silver & Zinc; Recovery High. Part II of II .. Sept 32-34**

Did the Vein Really Pinch? A Case History of Geochemical Exploration .. Sept 36, 37, 45**

Leaching Dumps to Recover More Southwest Copper at Lower

COMMODITIES INDEX

COPPER

Anaconda Expands Butte Compressor Plant .. Dec 16*

How San Manuel Used First Level Experience to Improve Second Level Mining .. July 18-

21, 47*

Palabora—Why It's the Most Exciting New Copper Mine in the 1960's .. Sept 26-31**

Did the Vein Really Pinch? A Case History of Geochemical Exploration .. Sept 36, 37, 45**

Leaching Dumps to Recover More Southwest Copper at Lower

Cost. Part I of II .. Oct 22-25, 27**

How Leaching Recovers Copper from Waste and Leach Dumps in Southwest. Part II of II Nov 20-24**

Story of Dave McGee Mining Copper Flux in Arizona .. May 20, 21, 50*

White Pine Raises Ore Grade and Cuts Mining Costs .. Aug 22-25**

Exploration .. Sept 36, 37, 45**

Hard Work and Persistence Pay Off for Idaho's Mountain Goat Leasers .. Nov 16-19, 27**

Americans Attend and Present Papers at International Minerals Congress .. July 30-31*

Anaconda Modernizes and Expands Compressed Air Plants at its Butte, Montana Operations

Dec 16*

ANFO Blasting Practice at Butte Mines .. Oct 30-33*

Australia's New Zinc-Lead Smelter Uses Imperial Process

Jan 16*

Colorado Mining Association: Miners Hear Management Problems .. Mar 24-25*

Did the Vein Really Pinch? A Case History of Geochemical Exploration .. Sept 36, 37, 45**

From Pyrrhotite to Pig Iron at Cominco .. Apr 10-12**

Greater Profit Is the Reason that It Pays to Mine in Canada Today .. Apr 14-16*

Hard Work and Persistence Pay Off for Idaho's Mountain Goat Leasers .. Nov 16-19, 27**

How Winter Doesn't Slow Atlantic City Iron Mine .. June 26-29*

How ASARCO Adapts Mining Methods to Taxco's Complex Geological Structures May 22-26**

How Kaiser Stacks, Blends and Reclaims Eagle Mt. Iron Ore

Feb 22*

How Mobile Service Trick Saves Time and Money at Boron Pit

May 27*

How San Manuel Used First Level Experience to Improve Second Level Mining .. July 18-21, 47*

How to Make Your Own Pulp Density Measuring Gauge (Money Making Methods) .. Aug 39

Improved Methods at Sunshine Mine Sends Higher Grade Silver Ore to Mill .. Feb 14*

How Asarco Adapts Mining Methods to Taxco's Complex Geological Structures May 22-26**

Tayoltita: Mexico's Most Important Silver-Gold Mining Operation. Part I of II .. June 20-24**

Tayoltita Cyanide Mill Has High Recovery Rate. Part II of II July 22-25**

Naica Battles Water and Costs as Lead-Zinc-Silver Mining Goes Deeper. Part I of II .. Aug 26-29, 38**

Naica Concentrator Floats Lead-Silver & Zinc; Recovery High. Part II of II .. Sept 32-34**

Did the Vein Really Pinch? A Case History of Geochemical Exploration .. Sept 36, 37, 45**

Hard Work and Persistence Pay Off for Idaho's Mountain Goat Leasers .. Nov 16-19, 27**

How Winter Doesn't Slow Atlantic City Iron Mine .. June 26-29*

How ASARCO Adapts Mining Methods to Taxco's Complex Geological Structures May 22-26**

How Kaiser Stacks, Blends and Reclaims Eagle Mt. Iron Ore

Feb 22*

How Mobile Service Trick Saves Time and Money at Boron Pit

May 27*

New Rubber Tire Mounted Wheel Excavator Digs and Loads 500 Yards per Hour .. Sept 35*

Palabora—Why It's the Most Exciting New Copper Mine in the 1960's .. Sept 26-31**

Photogeology Plus Geophysics Equals Photogeophysics .. Dec 20

Production Begins at Stauffer's Big Island Trona Mine .. Jan 12**

Revival for Bannack Gold District? .. Oct 28-29*

Stanford-Arizona Computer Symposium Features Case History Report on Solution of an Open-Pit

Naica Battles Water and Costs as Lead-Zinc-Silver Mining Goes Deeper. Part I of II .. Aug 26-29*

How Winter Doesn't Slow Atlantic City Iron Mine .. June 26-29*

How ASARCO Adapts Mining Methods to Taxco's Complex Geological Structures May 22-26**

How Kaiser Stacks, Blends and Reclaims Eagle Mt. Iron Ore

Feb 22*

How Mobile Service Trick Saves Time and Money at Boron Pit

May 27*

New Rubber Tire Mounted Wheel Excavator .. Sep 35*

GEORGIA

Why Winter Doesn't Slow Atlantic City Iron Mine .. June 26-29*

MINING WORLD

Month Page

Planning Program .. Aug 20-21
Story of Dave McGee Mining Copper Flux in Arizona .. May 20, 21, 50*

Tayoltita—Mexico's Most Important Silver-Gold Mining Operation. Part I of II .. June 20-24**

Tayoltita Cyanide Mill Has High Recovery Rate. Part II of II July 22-25**

Western Mining Conference Held at Denver .. Mar 24

White Pine Raises Ore Grade and Cuts Mining Costs .. Aug 22-25**

Why a New Mill Drives You Nuts! .. Mar 16*

Why Winter Doesn't Slow Atlantic City Iron Mine .. June 26-29*

Wilderness Bill: Continuing Menace to Mining and Resource Strength of Nation .. Mar 22*

COMPANY INDEX

American Smelting and Refining Co. .. Jan 28; May 22-26**

Oct 22-25, 27** Nov 20-24**

Anaconda Co. .. Aug 30-31*

Oct 22-25, 27; 30-33**

Nov 14-15, 20-24** Dec 16*

Apex Development Co. .. Sep 36, 37, 45**

Bagdad Copper Corp. .. Oct 22-25, 27** Nov 20-24**

Columbia-Geneva Steel—Division of U.S. Steel .. June 26-29*

COMINCO .. Apr 10-12*

Compania Fresnillo, S.A. .. Aug 26-29; Sept 32-34

Cia. Minera Asarco, S.A. .. May 22-26

Day Mines, Inc. .. Nov 16-19, 27

Duval Corp. .. Oct 22-25, 27 Nov 20-24**

Innovation Consolidated Copper Co. .. Oct 22-25, 27** Nov 20-24**

International Nickel Co. of Canada Limited .. Apr 8*

Kaiser Steel Corp. .. Feb 22*

Kennecott Copper Corp. .. Oct 22-25, 27** Nov 20-24**

Knob Hill Mines, Inc. .. Mar 20*

Little Hill Mines .. May 20, 21, 50*

Magma Copper Co. .. Jul 18-21, 47*

Miami Copper Co. .. Oct 22-25, 27** Nov 20-24**

Minas de Naica, S.A. .. Aug 26-29, 38** Sep 32-34**

Minas de San Luis, S.A. .. June 20-24** Jul 22-25**

Mountain Goat Mine .. Nov 16-19, 27**

Palabora Mining Co. .. Sep 26-31** Spokane National Mines Oct 28-29*

Stauffer Chemical Co. of Wyoming .. Jan 12*

Sulphide Corp., Pty. Ltd. .. Jan 16

Sunshine Mining Co. .. Feb 14-17

U.S. Borax and Chemical Corp. .. May 27* Sep 35

White Pine Copper Co. .. Aug 22-25**

WILDERNESS BILL

ARIZONA

How San Manuel Used First Level Experience to Improve Second Level Mining .. July 18-21, 47*

Mission Mill Metallurgy .. Jan 28

Story of Dave McGee Mining Copper Flux in Arizona .. May 20, 21, 50*

CALIFORNIA

AMC Consensus: Industry Outlook Best in Years .. Oct 40-41

How Kaiser Stacks, Blends, and Reclaims Eagle Mt. Iron Ore

Feb 22

How Mobile Service Truck Saves Time and Money at Boron Pit

May 27*

New Rubber Tire Mounted Wheel Excavator .. Sep 35*

GEORGIA

Why Winter Doesn't Slow Atlantic City Iron Mine .. June 26-29

MINING WORLD

* Photograph

** Diagram or map

Index of Published Material—1963

MINING WORLD

Volume 25, Numbers 1 through 4 and 6 through 13

AUTHORS INDEX

Month Page

Argall, George O., Jr.
Mining Rate on High Plateau in 1962 see growth in 1963 Jan 22
How San Manuel Used First Level Experience to Improve Second Level Mining .. July 18-21, 47*

Leaching Dumps to Recover More Southwest Copper at Lower Cost. Part I of II Oct 22-25, 27**
How Leaching Recovers Copper from Waste and Leach Dumps in Southwest. Part II of II Nov 20-24**
Story of Dave McGee Mining Copper Flux in Arizona .. May 20, 21, 50*

White Pine Raises Ore Grade and Cuts Mining Costs .. Aug 22-25**

Month Page

Cost. Part I of II .. Oct 22-25, 27**
How Leaching Recovers Copper from Waste and Leach Dumps in Southwest. Part II of II Nov 20-24**
Story of Dave McGee Mining Copper Flux in Arizona .. May 20, 21, 50*

White Pine Raises Ore Grade and Cuts Mining Costs .. Aug 22-25**

Month Page

Exploration .. Sept 36, 37, 45**
Hard Work and Persistence Pay Off for Idaho's Mountain Goat Leasers .. Nov 16-19, 27**

GOLD

How Knob Hill's Improved Mining Methods Minimize Cost Acceleration .. Mar 20-21*
Tayoltita: Mexico's Most Important Silver-Gold Operation. Part I of II .. June 20-24**
Tayoltita Cyanide Mill Has High Recovery Rate. Part II of II July 22-25**
Revival for Bannack Gold District? .. Oct 28-29*

TITLE INDEX

Americans Attend and Present Papers at International Minerals Congress .. July 30-31*
Anaconda Modernizes and Expands Compressed Air Plants at its Butte, Montana Operations

Dec 16*

ANFO Blasting Practice at Butte Mines .. Oct 30-33*

Australia's New Zinc-Lead Smelter Uses Imperial Process

Jan 16*

Colorado Mining Association: Miners Hear Management Problems .. Mar 24-25*

Did the Vein Really Pinch? A Case History of Geochemical Exploration .. Sept 36, 37, 45**

From Pyrrhotite to Pig Iron at Cominco .. Apr 10-12**

Greater Profit Is the Reason that It Pays to Mine in Canada Today .. Apr 14-16*

Hard Work and Persistence Pay Off for Idaho's Mountain Goat Leasers .. Nov 16-19, 27**

How Winter Doesn't Slow Atlantic City Iron Mine .. June 26-29*

Iron Smelter Uses Imperial Process

Feb 22*

How Knob Hill's Improved Mining Methods Minimize Cost Acceleration .. Mar 20*

How Leaching Recovers Copper from Waste and Leach Dumps in Southwest. Part II of II Nov 20-24**

How Mobile Service Trick Saves Time and Money at Boron Pit

May 27*

How San Manuel Used First Level Experience to Improve Second Level Mining .. July 18-21, 47*

How to Make Your Own Pulp Density Measuring Gauge (Money Making Methods) .. Aug 39

Improved Methods at Sunshine Mine Sends Higher Grade Silver Ore to Mill .. Feb 14*

How Asarco Adapts Mining Methods to Taxco's Complex Geological Structures May 22-26**

Naica Battles Water and Costs as Lead-Zinc-Silver Mining Goes Deeper. Part I of II .. Aug 26-29, 38**

Naica Concentrator Floats Lead-Silver & Zinc; Recovery High. Part II of II .. Sept 32-34**

Did the Vein Really Pinch? A Case History of Geochemical Exploration .. Sept 36, 37, 45**

Hard Work and Persistence Pay Off for Idaho's Mountain Goat Leasers .. Nov 16-19, 27**

Manganese Is a Clue to Deep Base and Precious Metals .. July 26-28*

Manganese Is a Clue to Deep Base and Precious Metals July 26-28*

Mining Highlights For 1962 Feb 13

Mining Rate on High Plateau in 1962 see growth in 1963 Jan 22-25*

Mission Mill Metallurgy—First Year Operational Summary Jan 28

Naica Battles Water and Costs as Lead-Zinc-Silver Mining Goes Deeper. Part I of II .. Aug 26-29, 38**

Naica Concentrator Floats Lead-Silver & Zinc; Recovery High. Part II of II .. Sept 32-34**

Hard Work and Persistence Pay Off for Idaho's Mountain Goat Leasers .. Nov 16-19, 27**

Metal Demand Will Be How Large in Next Four Years? June 30-32*

Mexicanization: Its Impact on the Mining Industry of Mexico

Mar 12*

New Diesel-Electric Haulage

Packs 65-ton Loads Faster Up 8.0% Grade .. Aug 30-31*

New Raise Drilling Techniques and Equipment .. Feb 19*

New Rubber Tire Mounted

Wheel Excavator Digs and Loads

500 Yards per Hour .. Sept 35*

Palabora—Why It's the Most Exciting New Copper Mine in the 1960's .. Sept 26-31**

Did the Vein Really Pinch? A Case History of Geochemical Exploration .. Sept 36, 37, 45**

Leaching Dumps to Recover More Southwest Copper at Lower

Month Page

Planning Program .. Aug 20-21
Story of Dave McGee Mining Copper Flux in Arizona .. May 20, 21, 50*

Tayoltita—Mexico's Most Important Silver-Gold Mining Operation. Part I of II .. June 20-24**

Tayoltita Cyanide Mill Has High Recovery Rate. Part II of II July 22-25**

Western Mining Conference Held at Denver .. Mar 24

White Pine Raises Ore Grade and Cuts Mining Costs

Aug 22-25**

Why a New Mill Drives You Nuts! .. Mar 16*

Why Winter Doesn't Slow Atlantic City Iron Mine .. June 26-29*

Wilderness Bill: Continuing Menace to Mining and Resource Strength of Nation .. Mar 22*

COMPANY INDEX

American Smelting and Refining Co. .. Jan 28; May 22-26**

Oct 22-25, 27** Nov 20-24**

Anaconda Co. .. Aug 30-31*

Oct 22-25, 27, 30-33**

Nov 14-15, 20-24** Dec 16*

Apex Development Co. .. Sep 36, 37, 45**

Bagdad Copper Corp. .. Oct 22-25, 27** Nov. 20-24**

Columbia-Geneva Steel—Division of U.S. Steel .. June 26-29*

COMINCO .. Apr 10-12**

Compania Fresnillo, S.A. .. Aug 26-29, 38; Sept 32-34

Cia. Minera Asarco, S.A. .. May 22-26

Day Mines, Inc. .. Nov 16-19, 27

Duval Corp. .. Oct 22-25, 27

Nov 20-24**

Inspiration Consolidated Copper Co. .. Oct 22-25, 27** Nov 20-24**

International Nickel Co. of Canada Limited .. Apr 8*

Kaiser Steel Corp. .. Feb 22*

Kennecott Copper Corp. .. Oct 22-25, 27** Nov 20-24**

Knob Hill Mines, Inc. .. Mar 20*

Little Hill Mines .. May 20, 21, 50*

Magma Copper Co. .. Jul 18-21, 47*

Miami Copper Co. .. Oct 22-25, 27** Nov 20-24**

Minas de Naica, S.A. .. Aug 26-29, 38* Sep 32-34**

Minas de San Luis, S.A. .. June 20-24** Jul 22-25**

Mountain Goat Mine .. Nov 16-19, 27**

Palabora Mining Co. .. Sep 26-31**

Spokane National Mines .. Oct 28-29*

Stauffer Chemical Co. of Wyoming .. Jan 12**

Sulphide Corp. Pty. Ltd. .. Jan 16

Sunshine Mining Co. .. Feb 14-17

U.S. Borax and Chemical Corp. .. May 27* Sep 35

White Pine Copper Co. .. Aug 22-25**

LOCALITY INDEX

ARIZONA

How San Manuel Used First Level Experience to Improve Second Level Mining .. July 18-21, 47*

Mission Mill Metallurgy .. Jan 28

Story of Dave McGee Mining Copper Flux in Arizona .. May 20, 21, 50*

White Pine Copper Co. .. Aug 22-25**

IDAHO

Improved Methods at Sunshine Mine Send Higher Grade Silver Ore to Mill ... Feb 14 Hard Work and Persistence Pay Off for Idaho's Mountain Goat Leasers ... Nov 16-19, 27**

MICHIGAN

White Pine Raises Ore Grade and Cuts Mining Costs Aug 22-25*

MONTANA

Anaconda Expands Butte Compressor Plant ... Dec 16* New Diesel-electric Haulpaks Packs 65 ton Load Faster up 8.0% Grade ... Oct 28, 29, 30-33 Aug 30-31* Nov 14-15 Revival For Bannack Gold District ... Oct 28-29* AN-FO Blasting Practice at Butte Mines ... Oct 30-33* Maintenance Control Means Greater Availability for Berkeley Trucks ... Nov 14-15*

WASHINGTON

Did the Vein Really Pinch? A Case History of Geochemical Exploration ... Sep 36, 37, 45** How Knob Hill's Improved Mining Methods Minimize Cost Acceleration ... Mar 20* Improved Methods at Sunshine Mine Send Higher Grade Silver Ore to Mill ... Feb 14-17*

WYOMING

Production Begins at Stauffer's Big Island Trona Mine ... Jan 12** Why Winter Doesn't Slow Atlantic City Iron Mine ... Jun 26-27*

FOREIGN COUNTRIES**AFRICA**

Palabora—Why It's the Most Exciting New Copper Mine in the 1960's ... Sept 26-31**

AUSTRALIA

Australia's New Zinc-lead Smelter Uses Imperial Process ... Jan 16*

CANADA

From Pyrrhotite to Pig Iron at COMINCO ... Apr 10-12** Greater Profit is the Reason that It Pays to Mine in Canada Today ... Apr 14-16*

International Nickel Uses AN-FO for "Hang-Up" Blasting ... Apr 8*

FRANCE

Americans Attend and Present Papers at International Minerals Congress ... Jul 30-31

MEXICO

Mexicanization: Its Impact on the Mining Industry of Mexico ... Mar 12*

How ASARCO Adapts Mining Methods to Taxco's Complex Geological Structures ... May 22-26**

Tayolita: Mexico's Most Important Silver-Gold Mining Operation. Part I of II ... June 20-24*

Tayolita Cyanide Mill Has High Recovery Rate. Part II of II ... July 22-25*

Manganese is a Clue to Deep Base and Precious Metals ... Jul 26-28

Naica Battles Water and Costs as Lead-Zinc-Silver Mining Goes Deeper. Part I of II ... Aug 26-29, 38-38*

Naica Concentrator Floats Lead-Silver & Zinc: Recovery High. Part II of II ... Sept 32-34**

COMPANY INDEX**United States Companies (News Section)****A—**

A.A.A. Oil & Minerals Co. ... Jan 43 A & B Mining Company ... July 44 Alaska Int'l Corp. ... Sept 35 Alaska Mines & Minerals ... Jan 37 Allied Chemical Corp. ... Feb 34 Allied Mission Oil ... Jan 43, Mar 43 Alumina Caribe ... Sept 47 Aluminum Co. of America ... Nov 37 Aluminum Silicates Co. ... Jan 40 American Agr. Chem. Co. ... July 47 Dec 35 American Cyanamid Co. ... Jan 36 May 41, Nov 38 American Exploration Co. ... Sept 47

American Expl. & Mining Co.

American Gislonite ... Apr 31, May 46 American Metal Climax ... Apr 24, 26 May 37, June 42, Aug 44 Sept 47, 56, Oct 44 American Molybdenum Corp. ... Nov 44 American Peru Mining Co. ... Feb 33 American Potash & Chem. ... Mar 28 Jun 44 Nov 37 ASARCO Jan 36, 37, 43 Feb 30, 32 Mar 36* Apr 25, 26 May 43, 35 July 38, 41, 42 Sep 53, 54*, 58, 60, 62, 64, 66 Oct 43 Nov 39, 42 Dec 44 American Steel & Wire ... Nov 39 American Zinc Co. of Tenn. ... Apr 27 Jun 41, Oct 42** American Zinc, Lead & Sm't ... Jan 11 Oct 44, Feb 37, Mar 39, May 42 Jun 43, Sep 58, Dec 37, 44 American Investments Inc. ... Feb 31 May 37, July 40 Anaconda Co. Jan 11, 41, 44, Feb 30, 36, 37 Mar 28 Apr 23, 29 May 19*, 37, 43, 44 Jun 41 Jul 44, 45 Aug 21, 42, 45 Sep 25*, Oct 21*, 43, 44, 45, 46 Nov 40, 42 Dec 39 Andrade Ranch Homestead ... May 38 Appalachian Sulphides ... Feb 35 Mar 40 Arizona Publ. Service Co. ... Aug 41* Arizona Silver Co. ... Jan 37 Arista Claims ... May 38 Arizona Chemcopper Corp. ... May 37 Arkansas-Louisiana Gas Co. ... Aug 43 Arkota Steel Company ... Nov 36 Armet Company ... Oct 48 Armour Company ... Apr 27, Jun 41 Arvonite Buckingham Slate Co. ... Jun 46* Ashton Co., Inc. ... Oct 43 Assoc. Mining Construction ... Jun 41 Aston Mineral Engr. ... Apr 26, Jun 41 Atlas Corp. ... Feb 38, Apr 26 May 37, Sep 68, Nov 49 Dec 15 Atlas Minerals Inc. ... Mar 44, Nov 43

B—

B & B Mining Company ... July 40 B O W Mining Co. ... Jan 36 Babcock & Wilcox ... Aug 44 Bagdad Copper Corp. ... May 37 Banner Mining Co. ... Apr 25** Barry County Minerals, Inc. ... May 43 Basic Inc. ... Dec 39, 40 Baugh Chemical Company Nov 38, Dec 35 Bay West, Inc. ... Mar 37, May 37, Nov 36 Bear Creek Mining Co. ... Feb 30 Mar 28, July 46, Aug 21, Sep 47, 55, Nov 38 Beaver Mesa Uranium, Inc. ... Jan 43 Bennett Mining Co. ... Dec 38 Beryllium Associates ... Mech 43 Beryllium Resources, Inc. ... Feb 37 Sep, 25* Jun 40 Best Mines Company Feb 33, Jul 41 Bethlehem Steel Corp. ... May 40, 42 Sep 47, Nov 39 Bigbee & Stephenson Inc. ... Aug 46 Big Bird Develop. Co. ... Feb 31 Big Creek Apex Mining Co. ... Feb 36 Sep 62, Nov 39 Billing Mining & Mill Co. ... Mar 41 Black Hawk Mng. ... Limited Mar 11** Jul 43, Aug 44 Black Hills Bentonite Co. ... Jul 46, Aug 48, Nov 44 Black Rock Mining (Subsid. Kelsey Assoc.) ... May 40 Blue Quail Mining ... Dec 36 Bonneville Ltd. ... Apr 31 Boulder Scientific Co. ... Sep 25* Boyles Brothers Drilling ... Apr 29 Aug 42 Brown Mining Co. ... Dec 37 Brush Beryllium Corp. ... Feb 38, Dec 40 Buckeye Mica Co. ... May 38 Bulldog Mountain Inc. ... Nov 38 Bunker Hill ... Jan 11, 43, Feb 30 Mar 35 Apr 21, May 28, May 38, 44, 46 Jul 44 Aug 47 Sep 42, 53, 54*, 62, 66 Oct 45, 46, 1, Nov 39, Dec 38, 39

C—

CBS Mining & Milg. Co. ... May 45 Cabot Corp. of Boston ... Mar 28 Caledonia Silver-Lead Mng. ... Nov 41 Calera Mining Co. ... Oct 45 Callahan Mining Co. ... Mar 36*, 41 May 43, Jul 45, Dec 36 Calmin Mines Inc. ... Feb 33 Calumet & Hecla ... Jan 36, Jun 41 Calaveras Central Gold ... Feb 33, Mar 39 Campbell Limestone Co. ... Nov 38

Carey Salt Company

Cargill, Inc. ... May 43 Carolina Pyrophyllite Co. ... May 41 Center Star Gold Mines, Inc. ... Apr 28 Centennial Mining ... Dec 39 Centennial Develop. May 44, Sep 68 Chapman Wood and Griswold ... Feb 33 Chemetals Corp. ... May 37 Chester Mining Co. ... Aug 45 Chico Alata Mng. Co. ... Mar 37 Chief Consol. Mng. Co. ... Oct 48 Chino Mines Div., Kennebott Copper Corp. ... Aug 46 Oct 47 Cities Service ... Dec 35 Henry Clay Mines, Inc. ... May 45 Claylou Uranium Co. ... Sep 69 Clayton Silver Mines ... Jan 40 Cleveland-Cliffs Iron Co. ... Feb 36 Mar 35, May 43, Jul 44, Sep 62 Oct 46, Nov 35* Climax Molybdenum Co. ... Mar 39 May 39, Jun 44, Jul 41, Aug 44 Sep 56, Nov 38 Climax Uranium Company ... Jan 43 Costal Mining Co. Ltd. ... May 40 Jul 43, Aug 44 Coeur d'Alenes Co. ... Jan 44, Mar 41 Coeur d'Alenes Mines Corp. ... Feb 36 Nov 39 Coeur d'Alenes Silver Mt. Mining Co. ... Dec 39 Coggins Granite ... Jul 43, Oct 44 Colorado Fuel & Iron Corp. ... Aug 48 Oct 44, No. 13** Dec 37 Columbia-Geneva Steel Div. ... Feb 38 Feb 47, Jul 46, Nov 39 Columbia Iron Mng. Co. ... Apr 29 Combined Metals Reduc. Co. ... Feb 37 Combined Produc. Assoc. ... May 19 Dec 15 Commonwealth Aluminum Corp. ... Aug 41 Congdon & Carey ... Oct 43 Conjecture Mines, Inc. ... Nov 39 Cons. Alleghany Mines, Inc. ... Jul 41 Cons. Coppermines Corp. ... Mar 28 Cons. Mines Selection Ltd. ... Sep 47 Cons. Parnett Corp. ... Jul 41 Cons. Coal Co. ... May 45 Continental Oil Co. ... Jul 43, Sep 68, Dec 35 Continental Uranium Co. ... Aug 48 Conzinc Riotinto of Australia Limited ... Aug 41* Copper Range Company ... Feb 35 Jun 44, Aug 21, Oct 44 Coronado Copper & Zinc Co. ... Mar 37 Cotter Chem. Corp. ... Feb 34 May 37, Jun 45 Cyprus Mines Corp. ... Feb 32 Mar 37, May 44, Nov 42

D—

Danite Mng. & Expl. Jan 42, Oct 46 Dawn Mining ... Jan 11, May 37 Sep 69 Day Mines, Inc. ... May 46 Jul 46, Sep 53, Oct 48 Daybreak Uranium Inc. ... Sep 69 Du Coursey-Brewis Ltd. ... Jan 37 Day Mines, Inc. ... Feb 38 Deep Lake Mining Co. ... May 43 Delta Coal ... Dec 36 Denver-Golden Corp. ... Feb 34 Dickey Expl. Co. ... Jul 41 Direct Minerals Inc. ... Jul 40 Dorr-Oliver ... Dec 35 Dow Chemical Company ... Jun 45 Walter Duncan Mining Co. ... Sep 58 The DuPont Company ... Mar 28 Duval Corp. ... Jan 38, Feb 30 Mar 37, Apr 23, May 37, 38 Jul 17, Aug 42, Sep 53, 56, 65 Oct 42 Nov 36, 37, 42

E—

Eagle-Picher ... Mar 39, Apr 26 Nov 37 East Utah Mining Co. ... Nov 42 East Coeur d'Alenes Silver Mines Inc. ... May 44, Nov 39, 41 El Paso Natural Gas Co. ... Jan 37 Jan 38, May 37 Empurie Mining Co. ... Jan 39 Jan 44 Empire Iron Mining Co. ... Jul 44 Empire Consol. Mines ... Dec 3 Eric Mining Co. ... Feb 36, Mar 35 Apr 26, 44, Aug 45 Ermont Mines ... Dec 39 Escalante Silver Mines Co. ... Oct 48 Eso Standard Fertilizer & Chemical Company ... Jul 17 Eveleth Taconite ... Dec 38

F—

Farm Chem. Resources Devel. ... Jan 42 Farmers Union Service Corp. ... Jan 42

Federal-Gas Hills Partners

May 37, Jul 46, Sep 69 Federal Resources Corp. ... Feb 36 Mar 45 Jul 39, 44, 45, 46 Nov 35, 39 Flat Creek Placers ... Aug 42 FMC Corp. ... Aug 48 Foote Mineral Co. ... Jul 38 Ford Motor Company ... Oct 45, Dec 38 Four Corners Oil & Mineral ... Feb 38 Jun 44 Nov 43 Fowler Consolidated ... Jul 44 Freeport Sulphur ... May 45, Aug 44 Dec 37

G—

Gas Hills Uranium Co. ... Apr 31 General Astrometals Co. ... Feb 37 General Minerals Corp. ... Feb 38 Geo-Resources Expl. ... Jul 42, 43 Oct 47 Geo-Ventures Inc. ... Apr 39, Jul 40 Georgia Marble Co. ... Feb 35 May 40, Oct 44 Getchell Mines, Inc. ... Feb 37 Gila Valley Block Co. ... May 38 Globe Mining Co. ... Jul 46 Golden Cyclo Corp. ... Dec 15 Goldfield Corp. ... Feb 37 Oct 46, 48 Dec 44 Goldfield Mng. & Ind. ... May 28 May 42 W. R. Grace Company ... May 38 Sep 47, 66, 68, Nov 37, Dec 37 Grand Deposit Mng. ... Aug 47* Nov 42 Grandview Mines ... Jul 39 Aug 42 Granite City Steel ... Mar 39 Nov 39 Great Western Sugar Co. ... Aug 48 Green Mountain Uranium ... Aug 48 Greenacres ... Apr 31 Grubstake Syndicate ... Dec 37, 38 Gulf States Land and Industries, Inc. ... May 37 Guy-Berson Sand Company Inc. ... Aug 43

H—

Hall, H. T. & Assoc. ... Dec 15 Halliburton Oil & Mng. Co. ... Nov 38 Hand Mining Co. ... Mar 42 The Hanna Mng. Co. ... Jan 41 Feb 33, 36, Apr 26, 30, Sep 58 Nov 62, Nov 43 Charles Hardy, Inc. ... May 37 Harris Granite Quarries Co. ... May 41 Havasu Mining Co. ... Apr 25 Hazen Research Inc. ... Jun 44 Allen L. Hearst & Assoc. ... May 38 Hecla Mining Co. ... Jan 43, 11, 44 Feb 36, Mar 41, May 44, Jul 44 Aug 45, Sep 53, 62, 68, Nov 42 Nov 43, 44, Dec 39 Hidden Splendor Mng. ... Feb 37 Apr 26 Highland-Surprise ... Aug 45 Nov 41 Charles R. Holland ... Oct 45 Homestake Mining Co. ... Jan 43 Feb 37, Feb 38, Mar 36, Apr 26, 27, May 46, Jul 42, 45, Aug 44 Sep 63, 66, Oct 47, Nov 42 Homestake-Sapin Partners ... May 37 Hope Mng. & Mfg. Co. ... Jul 40 Hydro Carbon Research Corp. ... May 38 Nov 37

I—

Idaho-Montana Silver Inc. ... Nov 39 Idarado Mining Co. ... Feb 34 May 40, Jul 41 Inland Steel Co. ... Jan 41 Jul 44, Sep 62, Nov 43 Inspiration Consol. Copper Co. ... Jan 38 Feb 31, May 38 Jun 43, Oct 43 Interlake Iron Corp. ... Nov 39 Int'l Harvester Co. ... Jul 44 Int'l Minerals & Chem. Corp. ... Mar 39 Apr 27, May 41 44, Jun 41 Jun 45, 65, Oct 44 Nov 38, Nov 39, 42, Dec 35 Iron Ore Research Co. ... Jan 41 Ironex Co. ... May 38, Nov 37 Isbell Construction ... Sep 56 Oct 42 Isbell Industries Inc. ... Jan 11 Apr 25, May 38

J—

Jefferson Lake Asbestos ... Jan 39 Jun 43, 44, Oct 43 Jefferson Lake Sulphur Co. ... Jan 39 Oct 43

K—

Kaiser Aluminum & Chemical Corp. ... Apr 31 Aug 41*, 21 Kaiser Eng. & Constr. Ltd. ... Feb 33 Kaiser Engineers, Inc. ... Sep 64

Kaiser Steel Corp. Apr 25
 Kelray Mining Co. May 37
 Kendrick Bay Mng. Co. Mar 37
 Kennecott Copper Corp. Jan 43
 Feb 31, 37, 38, Mar 11, Apr 26
 Apr 26, 29, 30, May 37, 38, 45
 Jul 43, 46, Jun 42*, Aug 21, 47
 Sep 47, 55, 56, 68, Oct 43, 46
 Nov 13*, 38, Dec 35
 Kentucky Fluorspar Co. Jun 45
 Kermac Nuclear Corp. Feb 33
 Apr 29, May 37, Jul 37, Aug 44
 Sep 53*, Nov 38, Dec 35
 Kermac Potash Co. Jan 42, May 45
 Kern County Land Co. Mar 36
 May 46, Jul 17**
 Kerr McGee Oil Ind. Inc. Jan 38
 Jan 42, Mar 42, Apr 24, May 38
 May 45, Aug 42, Oct 45
 Nov 37, 38, Apr 15, 35, 36
 Keystone Mng. Co. Jan 38
 Keystone Mines, Inc. Nov 36
 Keystone Silver Mines Inc. Nov 39
 King's Ransom Mine May 19
 Knob Hill Mines, Inc. Jan 11
 Jan 44, Feb 47, Jul 46, Aug 48
 Oct 42, 48

-L-

L-D Mines Feb 38
 May 46, Dec 15
 Lehman Brothers Jan 36, Nov 37
 Lincoln Mining Co. Mar 41, Sep 62
 Lincoln National Concentrates Corp. Feb 35
 Lithium Corp. of America Feb 35
 Little Squaw Mng. Co. Jul 39
 Aug 42, Nov 36
 Lookout Mountain Mining and Milling Co. Nov 41
 Lovitt Mining Co. Feb 38
 Lucky Friday Silver-Lead Mines Co. Feb 35, 36
 May 43, Jul 44, Sep 53, 54
 Lucky Mc Uranium Corp. Aug 48
 Lucky Seven Mining Co. Mar 37

-Mc-

McFarland & Hullinger May 46
 Jul 42, Aug 42, Sep 58, Oct 43
 Arthur G. McKee Co. Oct 46
 McLouth Steel Corp. Jul 44

-M-

M M & S Explor. Co. May 19
 Dec 35
 Magma Copper Company Feb 32
 Jun 43, Nov 38
 Magna Mining Jan 40, Feb 36
 Apr 28, Nov 39
 Magnet Cove Barium Corp. Jun 44
 Jul 43, 46, Dec 35
 Maiden Rock Silica Sand Co. Aug 43
 Majestic Oil Mng. Co. May 45
 Malflour Corp. Sep 60
 Manidon Mining Co. Jan 43 Mar 45
 Marble Prod. of Georgia Oct 44
 Marquette Mining Co. Nov 35**
 Martin Marietta Corp. Feb 35
 Maryland Green Marble Corp. May 41
 Matanuska Coal Dec 36
 Mecca Mining Co. May 45
 Meramec Mining Co. Apr 27
 May 42** Aug 43 Dec 37
 Merger Mines Corp. Jul 44, Oct 45
 Mesabi Iron Company Mar 35
 Metal & Thermit Corp. Jan 40
 Metals Reserve Co. Apr 24
 Michigan Limestone, Inc. Nov 39
 Micro Copper Corp. Sep 68
 Mid-Continent Uranium Co. Apr 45
 Midwest Oil Corp. Sep 68, 69
 Midwest Ore Company Feb 33
 Milbank & Company Feb 37
 Milwhite Company Inc. Feb 33
 Minark Co. Jan 39
 Mineral Explor. Dec 38
 Minerals & Chemicals
 Philipps Corp. Sep 47, Oct 48
 Mines Development Inc. Oct 47
 Mineralsand, Inc. Apr 31
 Minerals Eng. Co. Feb 34, Oct 44
 Mines Development, Inc. May 37
 May 46, Jul 42
 Mohave Constr. Co. Sep 56
 Molybdenum Corp. of America May 45, Jul 41, 45
 Aug 43, 44
 Money Metals Mining Co. Mar 38
 Monitor Mining Co. Oct 46
 Monsanto Chemical Corp. Jan 43
 Jul 44, Sep 54*, Oct 45
 Dec 35
 Montana Phos. Prod. Co. Jan 41
 Feb 36, Mar 41, Sep 64
 Montana-Standard Mng. Co. May 44
 W. S. Moore Company Jan 41
 Aug 45, Nov 42
 Morrison-Knudsen Inc. May 38
 Jul 39, Nov 37

Morton Chemical Co. Feb 33
 Mountain Copper Co. Feb 32
 of Calif. Feb 32
 Mt. Newman Iron Ore Co. Oct 44
 Mt. Wheeler Mines, Inc. Feb 37
 Murray Mining Corp. Ltd. Sep 47

-N-

Nancy Lee Mines Dec 39
 Nash & McFarland Mar 37
 National Potash Co. May 45
 National Tube, Inc. Nov 39
 Nevada-Massachusetts Co. Jan 42
 Oct 46
 New Departure Feb 36
 New Idria Mining & Chemical Company Mar 40
 New Jersey Zinc Co. Jan 42
 Feb 37, Aug 43, Oct 49
 Dec 37
 New Market Zinc Co. Apr 27
 Jun 45
 Newmont Mining Corp. Feb 32,
 Apr 24, May 19, 44, Jul 44, Sep
 55, 68, Nov 41, 42, Dec 15
 New Park Mng. Co. Jan 43
 May 43, Nov 42, 43, 44
 New Potosi Mine Feb 37
 Nicol Indust. Minerals Corp May 44
 North Amer. Drilling Co. Feb 33
 North Carol. Phosphate Corp. Jul 43
 Northern Continental, Inc. May 19
 Northern Natural Gas Co. Jan 41
 Northwest Alloys, Inc. Apr 31
 Northwest Magnesite Co. May 46
 Northwest Prospecting & Development Co. Jan 62

-O-

Occidental Oil Dec 35
 Oglebay Norton & Co. Oct 45
 Dec 38
 Olin Mathieson Chem. Corp. Jan 11
 Olivine Corporation Aug 48
 Oliver Iron Min. Div. Feb 36
 Jul 44, Oct 43, Nov 39, 40, Dec 38
 O'Neill Gothermal, Inc. May 39
 Original Sixteen to One Mines, Inc. Aug 43
 Ozark-Mahoning Co. Sep 36, 58

-P-

Pamlico Mng. & Copper Dec 35
 Park City Cons. Mines Co. Jul 42
 Sep 58
 Ralph M. Parsons Co. Oct 21
 Parson-Jurden Corp. Mar 35
 Apr 25, Jun 43, Sep 56, Oct 42
 Peabody Coal Co. Jan 41
 Pend Oreille Mines and Metals Co. Aug 48
 Pepin Shore Silica Sand Co. Aug 43
 Petrotronics, Inc. Feb 38
 May 37, Jul 46, Oct 45
 Phelps Dodge Corp. Jan 36
 Feb 31, 32, 38, May 38, Jun 43
 Jul 39, 40, Aug 42, 47, 51
 Sep 60, Nov 37, Dec 39
 Phillips Petroleum Co. Feb 36
 May 37, Sep 65
 Pickands Mather & Co. Aug 45
 Sep 62, Oct 46, Dec 38
 Pima Mining Co. Mar 38
 Sep 56*, Dec 36
 Pinnacle Exploration, Inc. Jun 44
 Sep 58
 Pittsburgh-Pacific Co. Sep 62
 Pittsburgh Plate Glass Co. Jun 41
 Oct 44
 Placer Develop. Ltd. Jun 41, Jul 17
 Plantation Clay Co. Feb 33
 Ponce Mining Co. Sep 47
 Potash Company of America Jan 36
 Apr 29
 Princeton Mining Co. Jan 40
 Feb 36
 Process Engineering, Devel. & Equipment Co. Sep 55, 56
 Puritan Mining Co. Nov 39

-Q-

Quinta Corporation Aug 46

-R-

R. T. Mining Co. Jul 45
 R. T. Corporation Nov 42
 Ranchers Expl. & Develop. Mar 42
 Rate Metals, Inc. Jan 37, 38
 Raymond International Sep 47
 Red Devil Jan 37
 Red Feather Mining Co. May 46
 Red Shirt Mining & Milling Company Aug 48
 Reese Mng. & Mfg. Co. Inc. May 45

Republic Steel Corp. Mar 40
 Sep 47
 Reserve Mining Co. Mar 35
 May 43, Aug 21, 45, Sep 64
 Richfield Oil Corp. May 45, Sep 68
 Richmond-Eureka Mng. Co. May 44
 Nov 42
 Richmond Hill Expl. Co. Oct 44
 Rico Argentine Mng. Co. Jan 39
 May 40, Jul 41
 Rochester & Pittsburg Dec 40
 Rocky City Mng. Corp. Nov 39
 Rocky Mountain Phosph. Inc. Jul 45
 Romero-Traen Mng. Apr 29 Sep 64
 Royster Chem. Corp. Dec 35
 Ruby Hill Mining Co. May 44

-S-

St. Joseph Lead Co. May 42
 Jun 44, Nov 37, Sep 25**
 Feb 37, Aug 43, Oct 49
 Dec 37
 Salmon River Scheelite Sep 62
 San Francisco Chem. Co. Jul 46
 Sawyer Petroleum Co. Feb 31
 Mar 38, May 37
 Shamrock Mng. Co. Jan 43, May 46
 Shattuck Denn Mng. Co. Nov 36
 Shirley Basin Partners Apr 31
 Shoni Uranium Corp. Feb 38
 Mar 45
 Showlow Mines Corp. Sep 47
 Sidney Mng. Co. Aug 48
 Sierra Cinders Co. May 38
 Sierra Del Oro Mng. Co. Nov 41,
 Dec 15
 Sierra Nevada Co. May 19,
 Dec 15
 Sierra Talc Co. Dec 39
 Silver Belle-Martinez Mine Jan 36
 Silver Dollar Mng. Co. Mar 41
 Silver Shield May 38
 Silver Springs Mng. Co. May 43
 Silver Star-Queens Mines Inc. Jan 40, Feb 36
 Mar 40, Jul 44
 Silver Wing Mng. Co. Nov 38,
 Dec 37
 Silver Syndicate Inc. Feb 35
 J. R. Simplot Co. May 43
 Aug 45, Sep 60
 Smith, Charles Aug 43
 Smith-Douglas Dec 35
 Smith, Edward Jun 41
 Socony-Mobil Oil Dec 35
 Southern Cement Co. Feb 35
 Spokane Abrasive Co. Sep 69
 Spokane Nat. Mines Feb 37 Aug 45
 Standard Chemical Co. Jun 41
 Standard Metals Corp. Jan 40
 Feb 37, Jul 41, Aug 44, Sep 58
 Nov 36
 Standard Oil N. J. Dec 35
 Steinfeld, A. Dec 36
 Stone Products Co. May 41
 Stovall Copper Co. Oct 43,
 Dec 36
 Strong & Harris, Feb 32 Aug 42
 Sunny Peak Mining Co. Jul 46
 Superior Oil Co. of Calif. Sep 68
 Sep 69
 Sunshine Consolidated Inc. Sep 62
 Sunshine Mining Co. Jan 11
 Jan 44, Feb 36, 40, Aug 45
 Sep 53, 54, 62, Nov 39, Dec 38
 Superior Oil Company May 45
 Superior Stone Co. Apr 26, 27
 Susquehanna Corporation Mar 45
 Susquehanna-Western Corp. Apr 31
 May 37, Jul 42, 46, Sep 66, 69
 Swindell-Dressler Corp. Oct 45

-T-

TXL Oil Corporation Aug 47
 Techmanix Corp. Dec 40
 Tenneco Oil Co. Sep 68
 Tennessee Coal & Iron Div. Nov 39
 Texas Gulf Sulphur Co. Feb 33
 Mar 28, May 45, Jul 43, 46
 Aug 44, Sep 68, 69, Oct 48
 Nov 35, 43, Dec 35, 37
 Tennessee Copper Co. Jun 45
 Jul 43*, Sep 60, Oct 42*
 Tennessee Corp. Dec 35
 J. A. Terling & Sons Oct 45
 Texas Zinc Minerals Corp. May 37
 May 43, Sep 68
 Thieli Kaolin Co. Oct 44
 Thomas Consol. Inc. Apr 30
 Thomas Mines, Inc. May 45
 Thunderbird Mining Co. May 46
 Tidewater Oil Co. Jun 43
 Tintic Standard Mining Co. Mar 43
 Tonopah Chemical Silver Co. Nov 42
 Tonopah Extension Mng. Co. Sep 64
 Tri-Nite Mining Co. Oct 48
 Tri-State Zinc Co. Jun 45
 Triumph Gold Mines Co. Jul 40
 Tungsten Mining Corp. Apr 27
 Oct 44

-U-

Union Carbide Nuclear Co. May 37
 Jun 44, Jul 41, Sep 58, Nov 38
 Nov 42, Dec 36, 37
 Union Carbide Ore. Mar 38 Jun 45
 United Cascade Mng. Co. Jul 46
 United Nuclear Corp. May 37
 Aug 46, Sep 65
 United Park City Mar 43, May 46
 A.E.C. Feb 33, Jul 42
 U.S. Bureau of Mines Aug 21
 U.S. Geological Survey Feb 31
 Feb 30, Aug 44, 45, 46
 U. S. Borax & Chem. Corp. Apr 30
 Aug 21, Nov 37, Dec 36
 U. S. Magnetic Dec 36
 U.S. Smelting, Refining & Mining Co. Mar 37
 May 44, May 46, Jun 42
 Jul 41, Sep 55
 United States Steel Corp. Feb 38
 Feb 36, Mar 41, Apr 29, Aug 21
 Nov 39
 Universal Oil Prod. Co. Mar 45
 Urano Mng. & Expl. Co. Mar 45
 Uranium Discovery & Dev. Co. Apr 46
 Uranium Mines, Inc. Nov 39
 Uranium Reduction Co. Mar 44
 Apr 26
 Utah Constr. & Mng. Co. Feb 38
 Mar 39, May 37, May 46, Jul 46
 Aug 41*, Aug 42, 43, Dec 39
 Utex Exploration Co. Mar 44
 Nov 42

-V-Z-

Vanadium Corp. of America Feb 34
 Mar 43, Apr 24, May 37, Jul 41
 Aug 44, 46, Oct 46, Dec 37
 Vinnell Corp. Dec 38
 Virginia-Carolina Chem. Corp. Jun 46, Dec 35
 Virginia Granite Co. Apr 26*
 Aug 41*
 Vitro Chemical Co. Feb 37
 May 37, 45, Sep 66, 68
 Vitro Minerals Corp. Feb 38
 Mar 43, Jul 46, Sep 25*
 Vitro Uranium Corp. Sep 69, Dec 40
 Wah Chang Corp. May 43
 Aug 47, Sep 66, 68
 Western Equities, Inc. Aug 42
 Western-Knapp Eng. May 45 Oct 46
 Western Standard Uranium Co. Feb 38
 West Coast Engr. Dec 38
 West Range Mines, Inc. Jan 38
 May 37, 38, Dec 36
 Western Beryllium Corp. Jan 42
 Western Contr. Corp. Jun 42
 Nov 35*
 Western Equities, Inc. Jan 38
 Western Knapp Engineering Jan 42
 Western Nuclear Inc. Jan 43
 May 37, 46, Jul 46 Sep 69 Dec 44
 Western States Miner. Co. May 39
 White Cape Gold Mng. Co. Nov 41
 White Pine Copper Co. Jan 39
 Aug 21, 43
 Wilson Marine Transit Co. May 43
 Youngstown Sheet & Tube Co. Apr 26 Nov 39
 Yuba Consol. Indust. Inc. Jul 41
 Ziegler Chem. Mineral Corp. Apr 31
 Zinc Mining Co. Apr 30
 Zontelli Brothers Jul 40
 Zontelli Western Mng. Dec 36

MONEY MAKING METHODS

How to Make Your Own Pulp
 Density Measuring Gauge Aug 39*
 Consolidated Zinc's Bearing Plate
 Makes Square Setting Safer Aug 39
 Use New Coramont Guide Tube
 to Drill Straight Long Holes Aug 39

GEOLOGISTS NOTEBOOK

Geophysics Points the Way to
 Nevada Minerals Jan 33*
 New Magnetic High Found in
 South Dakota Apr 18*

CONVENTIONS

AMC Consensus-Industry Outlook
 Best in Years Sept 40-41*
 Americans Attend and Present
 Papers at International Minerals Congress July 30-31*
 Denver Host for 66th Annual National
 Western Mining Conference Mar 24
 International Minerals Congress, Cannes, France June 63
 Stanford-Arizona Computer Symposium—Stanford, Calif. June 1963

